Appendix D

Engineer Recon

A general engineer recon gathers engineer information of a broad nature within an AO. It considers construction material, resources, and terrain features having engineer applications.

A general engineer recon may be conducted in conjunction with other recons. The Engineer Reconnaissance Report (see Figures D-1 and D-2, pages D-2 through D-6) will help ensure that all important information is captured.

The Engineer Reconnaissance Report is used to report items that are not adequately covered by other report forms previously discussed in this manual, but one of significance to engineer activities. The following information is included in the report:

- Heading. Self-explanatory.
- Key. The key references the item of the report and its corresponding location on the recon overlay. The object's serial number (or critical point number) is entered in this column.
- Object. Shown by a conventional symbol (see Figure D-3, pages D-7 and D-8) or a brief written description.
- Work Estimate. If a work estimate is included as part of the report, enter yes; if not, enter no.
- Additional Remarks. In this column, report the object's location by grid coordinates followed by remarks, calculations, and sketches. Make this information as detailed as possible to alleviate the necessity for an additional recon.
- Authentication Block. This is for the company commander's signature block and signature.
- Work Estimate. The work estimate is on the back of the DA Form 1711-R. Each work estimate is keyed by a serial or critical point number to the appropriate object on the reverse side of the form. Only those columns that are appropriate need be completed. Draw additional sketches when necessary (see Figure D-2).

ENGINEER RECOR	(NAISSANCE REPO	ORT PAGE 1 OF 4 PAGES
TO CO 2127	ENGR BN	FROM COA 212T ENGR BN
FILE NO	PARTY LEADE	R (Name, Grade, Unit) PLACE-HOUR-DATE P. TRYLOR, 11T UT 516 701
REPORT NO 1	COA 215	ENGR BN 112000 MAR 80
MAPS QUANTI	CO VIRGINIA	SHEET 5561 II SCALE 1:50, ddd
SZ, 21	nization, Place, Hou ENGR BN	UT 556+61 12 \$1 \$\$ HAR 80
KEY OBJECT TI	ME WORK	ADDITIONAL REMARKS AND SKETCH
	RVED MATE	BLOCKING AT 132
△	1900 YES	
		SKETCH
5	AMPLE	(24) LOGS @ O.S.M. DIAMETER, C-C I-S.M. ON ALL SIDES, I.S.M. TO 2.5 M ABOVE GROUND
TYPED NAME, G	Engineer Wo	+ Ø.5m ⁺ ork Estimate On Other Side ON SIGNATURE
CHARLES RO		Charles Roscae.

Figure D-1. Sample Engineer Reconnaissance Report (front)

ENGINEE	R RECONNAISSA	NCE RÉPORT	PAGE 2_OF _4_PAGES
TO CO	21 ST ENGR 6		FROM CO COA 21" ENGR BN
FILE NO	PAR	CTY LEADER (Name, Grade, Unit) PLACE-HOUR-DATE
REPORT	NO L C.	1 21 ST ENGA	BU 112 ded MARTO
MAPS QU	ANTICO VIE	EGIN/A	SHEET 5561 III SCALE 1:50, ppp
DELIVER	TO Organization. 21 St ENGR 6	Place, Hour an	nd Date) 6 461 12 \$ 1 \$ \$ HAR 80
KEY OBJ	ECT TIME OB- SERVED	WORK ESTI- MATE	ADDITIONAL REMARKS AND SKETCH
$\Lambda \mid \mathcal{N}$	/	YES	OBSTACLE NOT DEFENDED
△ △	Ø9pp	/23	BYPASS - DIFICULT (Jump) DUE TO
		{	SHAMPY TERRAIN
A 4	0920	No	UT509616 - GRAVEL PIT IN OPERATIO
	W124	٥٨	QUANTITY- APROX. GPED YS STOCKALL
ļ)	RANGING FROM 1 in to 3 in . In
			DIAMETER TYPE - CRUSHED GRANITE
			ATTICUS - GOOD ACCESS
- 1			THE STACE FOR
- 1			TURN AROUND AND LOADING
A u	6940	NO	UT SP174 - ABANDONED ENEMY ERPT.
^{/3}	, p 140		QUANTITY & TYPE - (2) "ZIPLO" HOVEL 200 CRAWLER CRANES. (OPERATIONAL)
	1		CHECKED FOR BOOBY TRARS -
l		X	NONE
		8 ~	
		1	
- 1	SY		
- 1		1	
		<u> </u>	
			Estimate On Other Side
	NAME, GRADE, O		SIGNATURE
	LES ROSCOE, CF Co A, 21st En		Clarke Roscoe

Figure D-1. Sample Engineer Reconnaissance Report (front) (continued)

ENGINEER RECONNAISSANCE REPORT		PAGE _3_ OF _4_ PAGES		
TO CO 21			FROM CO- COA	21st ENGR BN
FILE NO	PAR	TY LEADER (Name, Grade, Unit)	PLACE-HOUR-DATE
REPORT NO	1 0	A 21 ST ENG	R BN	11 2 \$4\$ HAR 80
MAPS QUANT	ICO. VIRG	JW/A	SHEET 5561 III	SCALE 1:50,000
DELIVER TO (Organization,	Place, Hour an	d Date)	
52,21°	ENGR	BN UT55	6461 12 Ø1 ØØ HA	HR 80
KEY OBJECT TIME OB- SERVED		WORK ESTI- MATE	UT 512692 - POSSIBLE BIVOUAL	
4 AREA	1035	NO	SIZE - 700 m x 90	ø m
			COMMUNICATIONS -	- GOOD ACCESS
			ROAD W/GOOD DA	
			SITE CONNITIONS	- GOOD DRAINAGE
			WITH FIRM SOIL, OBSER VATION & F/	F
ACEN	1150	NO	UT 558610 - Poss	SIGLE WATER POINT
元 (五)/	7		QUANTITY - Q=AV6	if /ifr
			A=13.5 FT V= 3 Q=(13.5)(35)(6.4)	5FPH \ = 1877 = 1 +
			PRINTING RECORDS	NO OBOK. NO OBSER
	4		VEN SOUNCE OF P	DIDITION, SEE PILL
	MPLE		TAKEN FOR TEST	二十二年 化化性医试剂 医经疗 。
	4/4		FROM MSR GOOD PARKING ON SITE	I be being a street or a street of the stree
1.5	> \'		1	A SHADE A E BANKS
2				BA ON SITE FOR ASSIGLE ARTICLERY
			TARGET SRIBGE	positive /
	'			
			0	
			9	13 N
				4 N
	E	ngineer Work E	Latimate On Other Side	Pages
TYPENNAM			SIGNATURE	
TYPED NAME, GRADE, ORGANIZATION CHARLES ROSCOE, CPT			Charles	Para
Cdr. Co	A, 21st En	gr Bn	June	1 contract

Figure D-1. Sample Engineer Reconnaissance Report (front) (continued)

	NAISSANCE REPORT	PAGE 4 OF _	PAGES	
TO CO. 21st ENG	R BN	FROM CO. CO-A	FROM CO. CO-A 21 ST ENGR BN	
FILE NO REPORT NO 4	THOMAS P. T	Name, Grade, Unit) AYLOR ZLT IGR BN	PLACE-HOUR-DATE OF 586 708	
MAPS			SCALE .	
DELIVER TO (Organi		3HEETS 5561 II		
52,21 ENGR	BN UT 55646	d Date) 1 12 4144 MA	R 80	
A L MAP L	pp ESTI-		ROAD NOT SHOW	
/n € 12.3	sφ μο	WATER TO TH	DISTING WATER PLANT SUPPLYING E CITY OF YUCU:	
TYPED NAME, CRA	DE, ORGANIZATION	stimate On Other Side SIGNATURE Charles 6		

Figure D-1. Sample Engineer Reconnaissance Report (front) (continued)

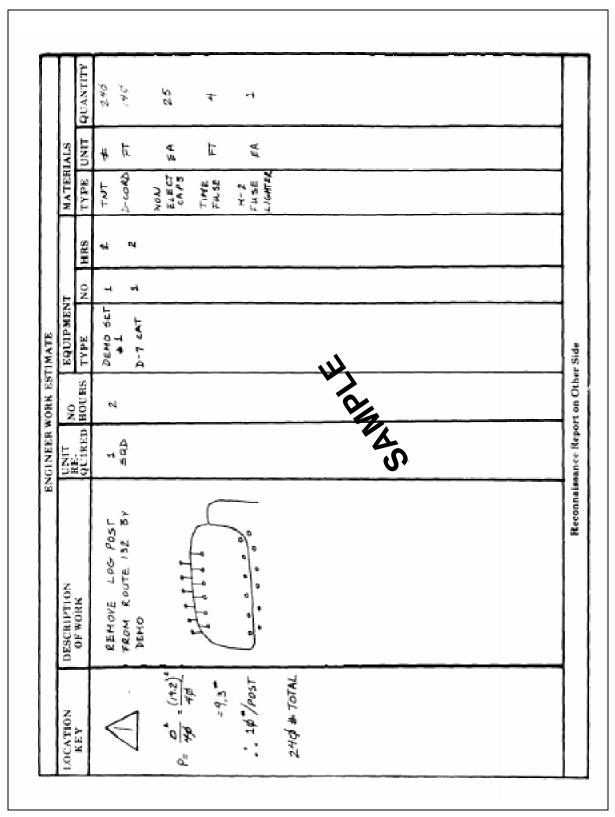


Figure D-2. Sample Engineer Reconnaissance Report (back)

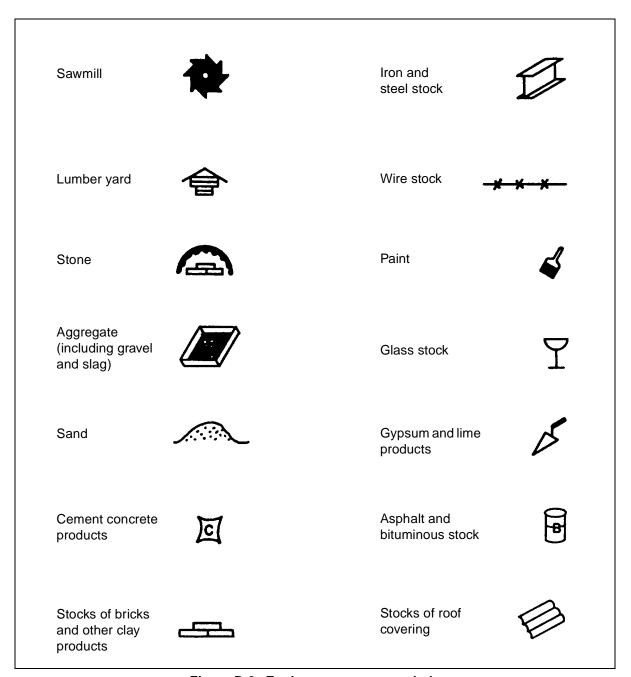


Figure D-3. Engineer resource symbols

Building hardware		Mobile, heavy- construction equipment	4
Industrial gases	ŢG	Forestry equipment	
Cordage, nets, yarns		Quarrying equipment	7
Civil-engineering firms	\bigotimes	Handling and transportation equipment storage	3
Building contractors		Powered hand tools	\forall
Factories	\triangle	Water-purification equipment (civilian)	w
Factory symbol plus plant product	⊠ △	Electrical supply equipment	*
Steel-rolling mills and foundries	8 4	Established military water point	4
Engineering workshops		Possible military water point	(1)

Figure D-3. Engineer resource symbols (continued)